

NOVEMBER/DECEMBER 2023

CBC53 — PHYSIOLOGY AND NUTRITION

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.



List the blood groups.

2. What do you mean by cardiac output?
3. Interpret the role of microvillus in digestion.
4. Relate the role of saliva in digestion.
5. How will you define Bohr's effect?
6. Tell the definition of tubular secretion.
7. What is a balanced diet?
8. List the rich sources of protein.
9. Relate xerophthalmia with vitamins.
10. List the functions of vitamin K.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Identify the composition of lymph.
Or
(b) Categorize the steps involved in cardiac cycle.
12. (a) Identify the mechanism of HCl formation.
Or
(b) Examine the functions of microvillus.
13. (a) Illustrate the structure of kidney.
Or
(b) Analyze the oxygen dissociation curve briefly.
14. (a) Explain the importance of essential fatty acids.
Or
(b) Appraise the causes and symptoms of marasmus and kwashiorkor.
15. (a) Interpret the significance of sodium in diet.
Or
(b) Appraise the steps involved in Wald's visual cycle



SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Examine the types of blood cells and its functions
17. Analyze the process of digestion and absorption of carbohydrates and lipids.
18. Appraise the mechanism of urine formation.
19. Evaluate the nutritional significance of carbohydrates.
20. Elaborate on the structure and biochemical functions of Vitamin D.